

### Description of the equipment

The equipment is used to store and automatically distribute the flammable and potentially explosive chemical EBR in a semiconductors production. There are two high-capacity storage tanks in a supply station located out of the production building. From the station, the chemical is pumped over to a distribution box inside the manufacturing floor and further to the manufacturing equipment.

The distribution unit is designed as a stainless steel cabinet with several rooms separated according to their function. The control electric switchboard of the system with the control panel covered with a security cover is built in the left upper part. The left bottom part comprises a system of pneumatically controlled valves and pumps. The right part of the cabinet has a built-in place for a two-hundred-litre barrel which is used as a buffer where the required level is maintained. The chemical is distributed from this buffer into the distribution network to the connected equipment and the distribution takes place automatically as per the request of the super-ordinate system or manually via commands from the control panel of the distribution unit.

### Equipment and options:

- Due to the chemical used, the equipment is rated for rooms with explosion hazard. The electric switchboard is installed during operation under controlled pressurization with nitrogen.
- The system of pneumatic pumps is doubled for every actuating line of the distribution system in order to eliminate downtimes in case of any failure.
- The space for the storage tank with the chemical has a lockable double door (which is open sideways and tilted), a roller conveyor in order to handle the barrel more easily, a collecting tub with an flooding emergency sensor.
- Gauges for pressure air and nitrogen inlet are built into the cover of the cabinet under the control panel on the left side.
- The equipment is operated by means of basic manual controls and mainly by the PLC Simatic 700 Comfort with a 7" touch screen with application software.
- Besides the connection to media, the equipment has to be connected to an external air exhaust in a flameproof version.



### Basic technical data:

Length:	1400 mm
Width:	900 mm
Height:	1950 mm
Weight:	340 kg